

[Please refer to the Undergraduate Catalog for further program requirements and course descriptions.](#)

First Year – 30-31 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CHEM 1110/1110L: <i>General Chemistry I/Lab</i> (Natural Science)	4	CHEM 1120/1120L: <i>General Chemistry II/Lab</i> (Natural Science)	4
BIOL 1110/1110L: <i>Principles of Biology I/Lab</i>	4	BIOL 1120/1120L: <i>Principles of Biology II/Lab</i>	4
MATH 1950: <i>Calculus w/ Analytic Geometry I</i> (Math)	4	MATH 1960: <i>Calculus w/ Analytic Geometry II</i>	4
ENGL 1010 or 1011 (Rhetoric and Writing I)	3-4	ENGL 1020 or HIST 2100 (Rhetoric and Writing II)	3
Elective (CHEM 1250)	1-2		
	16-17		15
Second Year – 28 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CHEM 3010/3010L: <i>Organic Chemistry I/Lab</i>	4	CHEM 3020/3020L: <i>Organic Chemistry II/Lab</i>	4
ENGL 2820: <i>Scientific Writing</i>	3	CHEM 2810: <i>Scientific Communication</i>	2
PHYS 1030/1030L: <i>Gen. Phys - Mechanics & Heat/Lab</i> or PHYS 2300/2300L: <i>Princ. of Phys: Mechanics & Heat/Lab</i>	4	PHYS 1040/1040L: <i>Gen. Phys - Eletromagnetism & Optics/Lab</i> or PHYS 2310/2310L: <i>Princ. of Phys - Electricity & Magnetism/Lab</i>	4
BIOL 1130: <i>Principles of Biology III</i>	3	CHEM 3210/3210L: <i>Quantitative Analysis/Lab</i>	4
	14		14
Third Year – 33-34 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CHEM 3710/3710L: <i>Physical Chemistry I/Lab</i>	4	CHEM 3720/3720L: <i>Physical Chemistry II/Lab</i>	4
CHEM 3820: <i>Chemical Literature</i>	1	BIOL 3250: <i>Genetics</i> (3260 lab recommended)	3-4
CHEM 4510: <i>Biochemistry</i>	3	MATH 2100: <i>Introductory Statistics</i> or MATH 3100: <i>Applied Statistics</i> (Statistics)	3
FAH: Historical Understanding	3	FAH: Literature	3
Behavioral and Social Science	3	Behavioral and Social Science	3
Elective*	3		
	17		16-17
Fourth Year – 29-32 Hours			
Fall Semester:	Hrs	Spring Semester:	Hrs
CHEM 3310: <i>Inorganic Chemistry</i>	3	CHEM 4530/4530L: <i>Proteins and Nucleic Acids/Lab</i>	4
CHEM 4230/4230L: <i>Instrumental Analysis/Lab</i>	4	Approved BIOL Elective	3-4
CHEM 4830r: <i>Seminar</i>	1	FAH: Thought, Values and Beliefs	3
Non-Western Culture	3	FAH: Visual and Performing Arts	3
Elective*	2-3		
	14-15		13-14

*One CHEM research course recommended from CHEM 4995r or CHEM 4997r for ACS certification.

Completed:			
Graduation Requirements:	Hrs	Degree Requirements:	Hrs
120 Total Hours		27-28 General Education Hours	
39 Upper Division (3000-4000) Hours		85-87 Program (Major) Hours	
30 Hours at UTC		Minor (<i>Not Required</i>)	
60 Hours at 4-year Institution		5-8 Elective Hours	
		Foreign Language Hours (<i>Not Required</i>)	